**Index of Claims** 

| App | licati | on/Co | ntrol | No. |
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10/788,663

Applicant(s)/Patent under Reexamination **GRUENING ET AL.** 

Examiner

Art Unit

Yong S. Chong

1617

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(Through numeral) Cancelled

Non-Elected N Restricted ı Interference

Appeal Α 0 Objected

| Cla   | Claim Date                             |                                 |              |  |              |          |          |            |          |             |
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| Final | Original                               | 7/5/07                          |              |  |              |          |          |            |          |             |
|       | 1                                      | -                               |              |  |              |          |          |            |          |             |
|       | 1<br>2<br>3<br>4<br>5                  | -                               |              |  |              |          |          |            |          |             |
|       | 3                                      | -                               |              |  |              |          |          |            |          |             |
|       | 4                                      | -                               |              |  |              |          |          |            |          |             |
|       | 5                                      | ŀ                               |              |  |              |          |          |            |          |             |
|       | 6                                      | -                               |              |  |              |          |          |            |          |             |
|       | 7                                      | -                               |              |  |              |          |          |            |          | L           |
|       | 8                                      | <u> </u>                        |              |  |              |          | _        |            |          |             |
|       | 9                                      | -                               |              |  | <u> </u>     |          | L_       |            |          |             |
| -     | 10                                     | -                               | _            |  |              |          |          |            |          | _           |
|       | 11                                     | -                               | _            | _  |              |          | _        | _          |          |             |
|       | 10<br>11<br>12<br>13<br>14<br>15<br>16 | -                               | <u> </u>     | $\vdash$   |              | $\vdash$ | _        |            | H        | H           |
|       | 14                                     | -                               | <u> </u>     |  |              |          | -        | $\vdash$   |          |             |
|       | 15                                     |                                 | -            | <del>                                     </del>   |              | -        | -        |            | -        | -           |
|       | 16                                     | -                               | $\vdash$     | $\vdash$   |              | ├        | $\vdash$ | -          |          | $\vdash$    |
|       | 17                                     | -                               | $\vdash$     | <del> -</del>                                      |              | -        | -        | -          |          | ⊢           |
|       | 18                                     | -                               | H            | $\vdash$   |              | $\vdash$ |          | -          |          | H           |
|       | 18<br>19                               | -                               | ┝            | $\vdash$   |              | $\vdash$ |          | -          | _        | $\vdash$    |
|       | 20                                     | -                               | $\vdash$     | H  |              |          | _        |            |          | <del></del> |
|       | 21                                     | -                               | _            | -  |              |          | $\vdash$ |            |          | $\vdash$    |
|       | 22                                     | -                               | <del> </del> | $\vdash$   |              |          | $\vdash$ |            |          | $\vdash$    |
|       | 20<br>21<br>22<br>23                   | -                               | $\vdash$     | Г  |              |          |          |            |          | $\vdash$    |
|       | 24                                     |                                 | $\vdash$     | $\vdash$   |              |          |          |            |          |             |
|       | 25                                     | 1                               |              |  |              |          |          |            |          |             |
|       | 24<br>25<br>26                         | 1                               |              |  |              |          |          |            |          |             |
|       | 27                                     | 1                               |              |  |              |          |          |            |          |             |
|       | 28                                     | 1                               |              |  |              |          |          |            |          |             |
|       | 29                                     | 1                               |              |  |              |          |          |            |          |             |
|       | 30                                     | 1                               |              |  |              |          |          |            | ı        |             |
|       | 27<br>28<br>29<br>30<br>31<br>32<br>33 | -<br>7<br>7<br>7<br>7<br>7<br>7 |              | $oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$          | _            |          |          |            |          |             |
|       | 32                                     | 1                               | $\vdash$     | <u> </u>   | <u> </u>     | Ш        | _        |            |          |             |
|       | 33                                     | <del>  -</del> ,                | _            | <u> </u>   | <u> </u>     | <u> </u> | <u> </u> | lacksquare | _        | <u> </u>    |
|       | 34                                     | V                               |              | <u> </u>   | ⊢            | <u> </u> |          | _          | <u> </u> |             |
|       | 35<br>36                               | - 7 7 7                         | <del> </del> | <u> </u>   | $\vdash$     | $\vdash$ | <u> </u> | -          | $\vdash$ | <u> </u>    |
|       | 35                                     |                                 | $\vdash$     | $\vdash$   | $\vdash$     | -        | <u> </u> | -          | <u> </u> | _           |
|       | 38                                     | N                               | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$ |          | -          | $\vdash$ |             |
|       | 39                                     | N                               | $\vdash$     | $\vdash$   | ├            | $\vdash$ | $\vdash$ |            | _        | $\vdash$    |
|       | 40                                     | _                               | $\vdash$     | $\vdash$   | <del> </del> | $\vdash$ | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$    |
|       | 41                                     | N<br>✓                          | $\vdash$     | <del>  -                                    </del> | $\vdash$     | 一        |          | -          | Ι        | $\vdash$    |
|       | 42                                     | V                               | $\vdash$     |  |              | ┢─       | $\vdash$ |            | $\vdash$ | $\vdash$    |
|       | 43                                     | V                               |              |  | 1            | <u> </u> | <u> </u> |            | Т        | $\vdash$    |
|       | 44                                     | V                               |              | T  |              | t —      |          |            | Т        | Т           |
|       | 45                                     | 1                               | Ι            |  |              |          |          |            |          |             |
|       | 46                                     | <b>V</b>                        |              |  |              |          |          |            |          |             |
|       | 47                                     | 1                               |              |  |              |          |          |            |          |             |
|       | 48                                     | ٧                               |              |  |              |          |          |            |          |             |
|       | 49                                     | ٧                               |              |  |              |          |          |            |          |             |
|       | 50                                     | V                               |              |  | I            |          | I        |            |          |             |

| Cla   | im       |            |              |          |  | Date   | <br>Ə  |          | -        |  | ] [ | Cla   | im       | Г  |             |              |          | Date           | =  |          |          | $\neg$         |
|-------|----------|------------|--------------|----------|--|--|--|----------|----------|--|-----|-------|----------|--|-------------|--------------|----------|----------------|--|----------|----------|----------------|
|       |          |            |              |          |  |  |  |          |          |  |     |       |          |  |             |              |          |                |  |          |          |                |
| Final | Original | 7/5/07     |              |          |  |  |  |          |          |  |     | Final | Original | 7/5/07                                       |             | :            |          | -              |  |          |          |                |
| ᆵ     | Ç        | 135        |              |          |  |  |  |          |          |  |     | 這     | ji       | 7/5  |             |              |          |                |  |          |          |                |
|       |          |            |              |          |  |  |  |          |          |  |     |       |          |  |             |              |          |                |  |          |          |                |
|       | 1        | -          |              |          |  |  |  |          |          |  |     |       | 51       | 1  |             |              |          |                |  |          |          |                |
|       | 3        | -          |              |          |  |  |  |          |          |  |     |       | 52       |  |             |              |          |                |  |          |          |                |
|       |          | -          |              |          |  |  |  |          |          |  |     |       | 53       |  |             |              |          |                |  |          |          |                |
|       | 4        | -          |              |          |  |  |  |          |          |  |     |       | 54       |  |             |              |          |                |  |          |          |                |
|       | 5        | -          |              |          |  |  |  |          |          |  |     |       | 55       |  |             |              |          |                |  |          |          |                |
|       | 6        | -          |              |          |  |  |  |          |          |  |     |       | 56       |  |             |              |          |                |  |          |          |                |
|       | 7        | -          |              |          |  |  |  |          |          |  |     |       | 57       |  |             |              |          |                |  |          |          |                |
|       | 8        | -          |              |          |  |  |  |          |          |  |     |       | 58       |  |             |              |          |                |  |          |          |                |
|       | 9        | -          |              |          |  |  | L  |          |          |  | 1   |       | 59       |  |             |              |          |                |  |          |          |                |
|       | 10       | -          |              |          |  |  |  |          |          | _  |     |       | 60       |  |             |              |          |                |  |          |          |                |
|       | 11       | -          |              | L_       |  | L  | _  |          |          |  |     |       | 61       |  |             |              |          |                |  |          |          |                |
|       | 12       | -          |              |          |  | <u> </u>   | L  |          |          | _  |     |       | 62       |  |             |              |          |                |  |          |          |                |
|       | 13       | -          |              |          |  | ļ  |  |          | L        |  |     |       | 63       | _  |             |              |          |                |  | L        | Ш        |                |
|       | 14       | •          |              | _        | <u> </u>   |  | $ldsymbol{ld}}}}}}$ |          | L.       | L_   |     |       | 64       |  |             |              |          | L              |  |          |          |                |
|       | 15       | -          |              | $\perp$  |  | _  |  | L.       |          | $oxed{oxed}$                                     |     |       | 65       | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ |             |              |          |                |  | L        |          |                |
|       | 16       | -          |              | <u> </u> | L  |  | <u> </u>   | L        | L_       |  |     |       | 66       |  |             |              |          |                |  | <u> </u> |          |                |
|       | 17       |            | Ŀ            | L        | _  | _  |  |          |          |  |     |       | 67       |  | _           |              |          |                |  |          |          |                |
|       | 18       | -          |              | L        |  |  | _  |          |          |  |     |       | 68       |  |             |              |          | L              |  |          |          |                |
|       | 19       | -          |              | L        |  |  | _  | <u> </u> |          |  |     |       | 69       |  |             |              |          |                |  | <u> </u> |          |                |
|       | 20       | -          |              |          |  |  | L  |          |          |  |     |       | 70       |  |             |              |          |                |  |          |          |                |
|       | 21       | -          |              |          |  |  |  | _        |          |  |     |       | 71       |  |             |              |          |                |  |          |          |                |
|       | 22       | -          |              | L        |  |  |  | L        |          | L  |     |       | 72<br>73 |  |             |              |          |                |  |          |          |                |
|       | 23       | _          | _            | _        |  | _  | <u> </u>   | <u> </u> |          |  |     |       | 73       |  |             |              |          | _              |  |          | L        |                |
|       | 24       |            |              |          |  |  | _  | <u>L</u> |          |  |     |       | 74       |  |             |              |          |                | L  |          | Ш        |                |
|       | 25       | 1          |              |          |  | _  | <u> </u>   |          |          | L_   |     |       | 75       |  |             |              |          |                |  |          |          |                |
|       | 26       | 1          |              | <u> </u> |  | <u> </u>   | <u> </u>   | <u> </u> |          | L_   |     |       | 76       |  |             |              |          | L              |  | _        |          |                |
|       | 27       | 1          |              | <u> </u> | <u> </u>   | _  | _  | L        |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$              |     |       | 77       |  |             |              |          |                |  |          |          |                |
|       | 28       | 1          |              | <u> </u> |  | _  | <u> </u>   | _        |          |  |     |       | 78       | _  |             |              |          |                |  | _        |          | Щ              |
|       | 29       | 1          |              | <u> </u> | _  |  |  |          |          | L.   |     |       | 79       |  |             |              |          | L              | _  |          |          |                |
|       | 30       | 1          |              | _        | L  |  | _  | L        |          |  |     |       | 80       |  |             |              |          |                |  |          | L        | Ш              |
|       | 31       | 1          |              | L        | _  | _  | _  | <u> </u> |          | _  |     |       | 81       |  |             |              |          |                |  |          |          |                |
|       | 32       | 7          |              | <u> </u> | _  | _  | _  |          |          | _  |     |       | 82       | L  |             |              |          |                | <u> </u>   |          |          |                |
|       | 33       | -,         | $\vdash$     | ⊢        | <u> </u>   | ļ  | <u> </u>   | $\vdash$ | ⊢        | <del> </del>                                     |     |       | 83       | <u> </u>                                     |             | L.           | ļ        | ļ              | Щ  | <u> </u> | Щ        | Щ              |
|       | 34       | 7          | <b> </b>     | <u> </u> | $\vdash$   | <u> </u>   |  | <u> </u> | ├        | <del> </del>                                     |     |       | 84       |  |             | <u> </u>     | $\vdash$ | <u> </u>       | $\vdash$   | _        |          | Щ              |
|       | 35       | 1          |              | -        | $\vdash$   | -  | ├  | <u> </u> | ⊢        | $\vdash$   |     |       | 85       | ₩  | Ь.          | $\vdash$     | _        | <u> </u>       | <b> </b>   | <u> </u> | <u> </u> | Щ              |
|       | 36       | 7          | $\vdash$     | $\vdash$ | _  |  | <u> </u>   | _        | <u> </u> | <u> </u>   |     |       | 86       | 1_   |             | <u> </u>     |          | <u> </u>       | $\vdash$   | <u> </u> | _        | Щ              |
|       | 37       | < Z        | <u> </u>     | -        | $\vdash$   | $\vdash$   |  |          | $\vdash$ | <del> </del>                                     |     |       | 87       | ⊢  | <u> </u>    | ⊢            | <u> </u> | <u> </u>       | $\vdash$   | $\vdash$ | <b>-</b> | $\vdash$       |
|       | 38       |            | $\vdash$     | ⊢        | ├  | H  | ⊢  | ļ        | ├        | $\vdash$   |     |       | 88       | ⊢  | H           | <del> </del> | _        | $\vdash$       | $\vdash$   | ├        | <u> </u> | Н              |
|       | 39<br>40 | zz         | H            | $\vdash$ | <del> </del>                                     | ⊢  | ⊢  | -        | $\vdash$ | $\vdash$   |     |       | 89<br>90 | $\vdash$                                     |             | <u> </u>     |          | <u> </u>       | -  | ├—       | $\vdash$ | Н              |
|       | 41       | <b>N</b> ✓ | -            | -        | $\vdash$   |  | ├  | -        | ├        | ├—   |     |       | 91       | $\vdash$                                     | $\vdash$    | <u> </u>     | <u> </u> | $\vdash$       | $\vdash$   | $\vdash$ | H        | $\vdash$       |
|       | 42       | 7          | H            | _        | ├  | ├  | ⊢  |          | $\vdash$ | $\vdash$   | { } |       | 92       | ⊢  | <del></del> | $\vdash$     | $\vdash$ | <del>  -</del> | H  | ⊢        | $\vdash$ | $\vdash\vdash$ |
|       | 42       | 7          | H            |          | ⊢  | $\vdash$   | ⊢  | $\vdash$ | ⊢        | ┈  |     |       | 93       | ╁  | Ι—          | $\vdash$     | <b> </b> | ├              | $\vdash$   | -        | -        | Н              |
|       | 44       | 7          | $\vdash$     | $\vdash$ | $\vdash$   | ├  | $\vdash$   |          | $\vdash$ | $\vdash$   |     |       | 94       | $\vdash$                                     | -           | $\vdash$     |          | <del> </del>   | $\vdash$   |          |          | $\vdash$       |
|       | 45       | 7          | -            |          | <del>                                     </del> | <del> </del>                                     |  | $\vdash$ | -        | $\vdash$   |     |       | 95       | $\vdash$                                     | <u> </u>    |              |          | $\vdash$       |  |          | $\vdash$ | $\vdash$       |
|       | 46       | 7          | $\vdash$     | $\vdash$ | -  | $\vdash$   | ├  |          | ⊢        | <del>                                     </del> |     |       | 96       | $\vdash$                                     | H           | -            |          | $\vdash$       | <del> </del>                                     |          | $\vdash$ | H              |
| _     | 47       | 7          | $\vdash$     | $\vdash$ | -  | $\vdash$   | $\vdash$   | -        | ┢        | ├  |     |       | 97       | $\vdash$                                     | $\vdash$    |              | _        | $\vdash$       | <del> </del>                                     |          | $\vdash$ | $\vdash$       |
|       | 48       | 7          | -            |          | -  | <del>                                     </del> | $\vdash$   |          | $\vdash$ | $\vdash$   |     |       | 98       | ₩  | <b></b> -   | ├─           |          | $\vdash$       | H  | -        | $\vdash$ | $\dashv$       |
|       | 49       | 7          | $\vdash$     |          | -  | $\vdash$   | <del>                                     </del>   | $\vdash$ | t        | <del>                                     </del> |     |       | .99      | $\vdash$                                     | $\vdash$    | ├            |          | $\vdash$       | <del>                                     </del> | -        | $\vdash$ | $\vdash\vdash$ |
|       | 50       | 1          | <del> </del> |          | <del>                                     </del> | $\vdash$   | $\vdash$   | <u> </u> | $\vdash$ | $\vdash$   |     |       | 100      | <del> </del>                                 | -           | ├─           |          | $\vdash$       | <b>-</b>   | ├─       | $\vdash$ | $\vdash$       |
|       |          | ئــــــا   | Щ            |          |  | Ь  | Щ  | L        | <u> </u> |  | , l |       | 100      | <b>_</b>                                     | Щ.          | Щ.           |          | Ц              | Щ  | L        | L        | Ш              |

|       | l                 | <u> </u> |              |              |                                     |              |          |          | l        |          |
|-------|-------------------|----------|--------------|--------------|-------------------------------------|--------------|----------|----------|----------|----------|
| Cli   | aim               | r –      |              |              |                                     | Date         |          |          |          | $\neg$   |
| - 016 |                   | H        |              |              | _                                   | Jack         |          |          |          | $\dashv$ |
| -     | Original          |          |              |              |                                     |              |          |          |          |          |
| Final | iĝ                |          |              |              |                                     |              |          |          |          |          |
| ш.    | Ō                 |          |              |              |                                     |              |          |          |          |          |
|       | 101               | H        | <del> </del> | ├            |                                     |              | _        | $\vdash$ |          | -        |
|       | 102               | -        |              | $\vdash$     | $\vdash$                            | -            |          | -        | _        | $\dashv$ |
|       | 102<br>103        | ┢╌       |              | $\vdash$     | Н                                   |              | -        | $\vdash$ | <u> </u> |          |
|       | 104               | $\vdash$ |              | -            | $\vdash$                            | -            |          |          | $\vdash$ | H        |
|       | 104<br>105        | _        |              | $\vdash$     | $\vdash$                            |              | -        | <u> </u> | _        | $\vdash$ |
|       | 106               | $\vdash$ |              | _            | $\vdash$                            |              | _        | $\vdash$ |          | $\vdash$ |
|       | 107               |          | <del> </del> |              |                                     | $\vdash$     | _        | $\vdash$ |          |          |
|       | 108               |          |              |              |                                     |              |          |          |          |          |
|       | 109               |          | _            |              |                                     |              |          |          |          | $\Box$   |
|       | 110               |          |              |              |                                     |              |          |          |          |          |
| -     | 111               |          |              |              |                                     |              |          |          |          | П        |
|       | 112               |          |              |              |                                     |              |          |          |          | П        |
|       | 112<br>113        |          |              |              |                                     |              |          |          |          |          |
|       | 114               |          |              |              |                                     |              |          |          |          |          |
|       | 115               | L        |              |              |                                     |              |          |          |          |          |
|       | 116               | L        |              |              |                                     |              |          |          |          |          |
|       | 117               |          | L_           |              |                                     |              |          |          |          |          |
|       | 118               |          | <u> </u>     |              |                                     |              |          |          |          |          |
|       | 119               |          |              | <u> </u>     |                                     |              |          |          |          |          |
|       | 120               | <u> </u> |              |              |                                     |              |          |          |          | Ш        |
|       | 121               | L        |              |              | Ш                                   |              |          | L        |          | Ш        |
|       | 122               | _        |              |              |                                     | $\Box$       | _        |          | _        |          |
|       | 122<br>123<br>124 | _        | L_           | <u></u>      |                                     |              |          |          | <u> </u> | Ш        |
|       | 124               |          |              |              |                                     |              |          |          | _        | Ш        |
|       | 125<br>126<br>127 | _        |              | _            | -                                   |              | _        | ļ        | <u> </u> | Н        |
|       | 126               | _        | <u> </u>     | ⊢            |                                     |              | _        | <u> </u> |          | Н        |
|       | 127               | ├        | -            |              |                                     | _            | <u> </u> | _        |          | Н        |
|       | 128<br>129<br>130 | -        | -            | <del> </del> | -                                   |              | $\vdash$ |          |          | Н        |
|       | 129               | -        | ┢            | -            | $\vdash$                            |              | <u> </u> | -        | $\vdash$ | H        |
|       | 130               | $\vdash$ | ⊢            | _            | -                                   | —            | ┝        | Ь        |          | Н        |
|       | 131<br>132        | ┢─       | -            | -            |                                     | _            |          | ⊢        | ┢        | $\vdash$ |
|       | 133               | $\vdash$ | -            | $\vdash$     |                                     | <del> </del> | _        | $\vdash$ | $\vdash$ | Н        |
|       | 133<br>134        | 1        | $\vdash$     | H            |                                     | $\vdash$     | $\vdash$ | -        | <u> </u> | Н        |
|       | 135               | Ι-       | $I^-$        | Т            |                                     | $\vdash$     | $\vdash$ | T        |          | H        |
|       | 136               |          |              |              |                                     |              | Г        |          |          | П        |
|       | 137               |          |              |              |                                     |              |          |          |          | П        |
|       | 138               |          |              |              |                                     |              |          |          |          | П        |
|       | 139               |          |              |              |                                     |              |          |          | Г        | П        |
|       | 140               |          |              |              |                                     |              |          |          |          |          |
|       | 141               |          |              | $\Box$       |                                     |              |          |          |          |          |
|       | 142               |          |              |              | $\Box$                              |              |          |          |          |          |
|       | 143               | <u>_</u> | <u> </u>     | <u> </u>     | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | <u> </u>     | <u> </u> | <u> </u> | _        | Ш        |
|       | 144               | <u> </u> | L_           | <u> </u>     | $ldsymbol{f eta}$                   | <u> </u>     | L_       | L_       | _        | Ш        |
|       | 145               | <u> </u> | <u> </u>     | <u> </u>     | <b> </b>                            | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | Ш        |
|       | 146               | Ь        | <u> </u>     | <u> </u>     | <u> </u>                            | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | Ш        |
|       | 147               |          | ├—           | <u> </u>     | <u> </u>                            | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | Щ        |
|       | 148               | _        | _            | <b> </b> -   | $\vdash$                            | <u> </u>     | ļ        | <u> </u> | <u> </u> | Н        |
|       | 149               | $\vdash$ | <del> </del> | ļ            | H                                   | <u> </u>     | <u> </u> | <u> </u> | <u> </u> | Ш        |
|       | 150               | <u> </u> |              | <u> </u>     |                                     |              | L        | <u> </u> |          | Ш        |